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[Continued on next page]

(54) Title: TREATMENT OF RHEUMATOID ARTHRITIS BY INHIBITION OF PDE4

#### COLLAGEN-INDUCED ARTHRITIS IN DBA MICE **CUMULATIVE SCORE** (ONCE-A-DAY ORAL DOSING) **VEHICLE** 5 VEHICLE ROFLUMILAST 5 mpk CUMULATIVE SCORE **ROFLUMILAST** INDO 1 mpk mpk EX. 1 (3mpk) EX. 1 mpk 3 T INDOMETHACIN ○ EX. 1 (1mpk) 2 1 n=18-20 0 MICE/GROUP 25 30 35 40 20 45 55 50 60 TIME (DAYS) \*p<0.50 COMPARED WITH PLACEBO

(57) Abstract: A method of treatment of rheumatoid arthritis administers an effective amount of a compound that inhibits phosphodiesterase-4.